

WHAT IS CLAIMED IS:

Sub 1 1. A combination of a shoe stud and receptacle wherein the shoe
 2 stud includes a ground-engaging part and the two components are
 3 adapted to be secured together by a threaded connection comprising
 4 a screw-threaded spigot on one of the two components adapted to be
 5 inserted with rotation into a screw-threaded socket on the other
 6 component, and a locking means for the components arranged to
 7 become inter-engaged at least when the spigot is fully inserted into
 8 the socket to resist unscrewing of the assembly, characterized in that
 9 the stud and receptacle have means to determine the initial position
 10 of the stud relative to the receptacle, and means to determine the
 11 final position of the stud relative to the receptacle.

1 2. The combination of claim 1, characterized in that the threaded
 2 connection is a three-start thread.

1 3. The combination of claim 1, characterized in that the threaded
 2 connection is a six-start thread.

1 4. The combination of claim 1, characterized in that the means to
 2 determine the initial position of the stud relative to the receptacle is
 3 provided by the threaded connection, with one of the threads and

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4 grooves being different from the other or others to provide a key and
5 complementary keyway.

1 5. The combination of claim 4, characterized in that the key
2 comprises an enlarged thread on one of the components and a
3 correspondingly enlarged groove on the other component.

1 6. The combination of claim 5, characterized in that the thread
2 and groove are enlarged radially.

1 7. The combination of claim 4, characterized in that the key
2 comprises a bridged thread on one of the components and a
3 removed thread on the other component.

1 8. The combination of claim 4, characterized in that the key is
2 provided on the receptacle and the keyway on the stud.

1 9. The combination of claim 4, characterized in that the key is
2 provided on the stud and the keyway on the receptacle.

1 10. The combination of claim 4, characterized in that the locking
2 means comprises radially-facing locking formations on the stud and
3 receptacle operative to come into mutual engagement when the

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4 spigot has been screwed into the socket to a predetermined axial
5 position.

1 11. The combination of claim 10, characterized in that one of the
2 locking formations comprises at least one radial projection while the
3 other comprises at least a radially-facing lead-in ramp, recess and
4 stop means.

1 12. The combination of claim 10, characterized in that two locking
2 formations are provided.

1 13. The combination of claim 12, characterized in that the locking
2 formations are on different diameters.

1 14. The combination of claim 4, characterized in that the locking
2 means comprises locking formations as a ring of posts extending
3 axially from one of the components and a ring of radially projecting
4 teeth on the other component, arranged such that when the spigot
5 has been screwed into the socket to a predetermined axial position,
6 engagement of the teeth with the posts causes resilient deflection of
7 the posts, and engagement of the teeth between the posts causes
8 inter-engagement of the locking means.

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1 16. A stud for use with an article of studded footwear having a
2 receptacle with a multi-start screw-threaded socket, having a spigot
3 with a multi-start screw thread complementary to the screw thread of
4 the socket, such that rotary insertion of the spigot into the socket
5 secures the stud in the receptacle, characterized in that the spigot
6 has one component of a helical key and complementary keyway of
7 which the other component is provided on the receptacle, the helical
8 key and keyway defining the position of the spigot relative to the
9 receptacle at the start of the insertion of the spigot into the socket.

1 17. The stud of claim 16, further characterized in that the
2 keyway is provided on the spigot.

1 18. The stud of claim 17, further characterized in that the
2 keyway comprises a groove of the screw-thread on the spigot which
3 is of different dimensions from the other groove or grooves.

1 19. The stud of claim 18, further characterized in that the
2 keyway comprises an enlarged groove.

1 20. The stud of claim 19, further characterized in that the groove is
2 enlarged radially.

1 21. The stud of claim 19, further characterized in that the enlarged
2 groove is formed by removal of a screw-thread.

1 22. The stud of claim 16, further characterized in that the stud
2 includes one component of a locking means of which a
3 complementary component is provided on the receptacle.

1 23. The stud of claim 16, further characterized in that the stud is a
2 specifically-oriented stud.

1 24. A receptacle for incorporation in an article of studded footwear
2 having a multi-start screw-threaded socket adapted to receive a
3 spigot of a shoe stud, the spigot having a multi-start screw thread
4 complementary to the screw thread of the socket, such that rotary
5 insertion of the spigot into the socket secures the stud in the
6 receptacle, characterized in that the receptacle has one component
7 of a helical key and complementary keyway of which the other
8 component is provided on the spigot, the helical key and keyway
9 defining the position of the spigot relative to the receptacle at the
10 start of the insertion of the spigot into the socket.

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1 25. The receptacle of claim 24, further characterized in that the
2 key is provided in the socket.

1 26. The receptacle of claim 25, further characterized in that the
2 key comprises a thread of the screw-thread on the socket which is of
3 different dimensions from the other thread or threads.

1 27. The receptacle of claim 26, further characterized in that the
2 key comprises an enlarged thread.

1 28. The receptacle of claim 27, further characterized in that the
2 thread is enlarged radially.

1 29. The receptacle of claim 27, further characterized in that the
2 enlarged thread is formed by a bridged thread.

1 30. The receptacle of claim 24, further characterized in that the
2 receptacle has one component of a locking means, of which a
3 complementary component is provided on the stud .

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